3178

DUPLICATE No. 8502-1

Department of Commerce and Labor
COAST AND GEODETIC SURVEY

O. H. Tittmann
Superintendent.

State: Alaska

DESCRIPTIVE REPORT.

Hyd Sheet No. 3178

LOCALITY:

Nushagak Bay
Eastern Part

1909

CHIEF OF PARTY:

W. C. Dibrell

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For general report see 945 SX 1909 II acc No. 64227.

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DEPARTMENT OF COMMERCE AND LABOR

Coast and Geodetic Survey

O.H.Tittmann, Sup't.

Hydrographic Sheet No. 3178

(Field Sheet No.2)

Nushagak Bay, Eastern Part

ALASKA.

Steamer EXPLORER

Walter C. Dibrell, Assistant, Chief of Party

Begun: July 2,1909

Ended: Aug.30,1909

Scale 1 - 20 000

Hydrography in charge of: Walter C.Dibrell, Assistant

" " " " A. R. Hunter,Watch Officer

Projection by: W. B. Dunning, Aid

Positions plotted on smooth sheet by: A. R. Hunter, W.O.
B. C. Baldwin, Aid...

Soundings " " " " " S. W. Fay, Aid.....
And others

3178 Hydrographic Sheet No. 2.....

OBSERVERS:

Walter C. Dibrell, Assistant
F. H. Hardy "
R. H. Hawkes, Surgeon
A. R. Hunter, Watch Officer
S. W. Tay, Aid
W. B. Dunning, Aid

RECORDERS:

Hansen, H. L., Chief Writer
Duker, William, Wr. 2nd cl.

LEADSMEN:

Moen, Emil	Quartermaster	1st cl.
Ramberg, B.	"	2nd cl.
Hanson, John G.	"	2nd cl.
Hanson, Oscar	"	2nd cl.

TIDE OBSERVERS:

Wilson, ~~Capt. of ship "Burges"~~ C. M.
Callaway, E. Seaman

Tide gauge at Clark Point.....

DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC SHEET
No. ..... (FIELD #2), NUSHAGAK BAY, EASTERN PART, ALASKA.
SCALE 1 - 20 000

Although this sheet is entitled the eastern part of Nushagak Bay for want of a better name, it includes an irregular area and reaches well out into the middle of the Bay westward and southwestward of Ekuk village. A stretch of 5 miles is shown along the eastern shore southeastward of Ekuk Spit. On northwestern part of sheet is shown a portion of the Snake River channel about 3 miles in length. The lower part of the channel is included on sheet #3.

2. This sheet joins #1 on the eastern side, #4 on southern and #3 on the western. The disproportion between the size of paper and area covered by soundings is partly due to the wide mudflat lying across northern part of sheet and partly to the fact that some of the work is far from shore and the field party should therefore have as many signals as possible available in order to take advantage of the best conditions of seeing.

3. Immediately southward of Ekuk Bluff (Ekuk △) is shown a small portion of the eastern channel, which will be recommended for the use of vessels. The middle or western part of the area developed is crossed by the main channel of Nushagak Bay, carrying over six fathoms at mean low water. This part of that channel is not used however for navigation.

4. The hydrography includes both launch and ship work. The launch lines are run transversely to the depth curves. Many of them are crooked owing to currents and difficulty of getting

good ranges. The ship lines were run by compass. On the lower part of the sheet they are transverse to the depth curves, but off Ekuk Spit they run with the channel and are for that reason closer together. The ship work had to be done with caution owing to currents and danger of grounding.

5. All of the positions and soundings of the sheet have been plotted by the field party, but no inking has been done. The depth curves have been drawn, but revision may be necessary after the soundings have been inked.

Respectfully submitted,

To the Superintendent,
Coast and Geodetic Survey,
Washington, D. C.

Assistant, C. & G. Survey,
Chief of Party.

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Hydrographic Sheet # 2

STATISTICS

Date 1909	Vol.	Let.	Miles (Stat)	Sdgs.	Angles	Remarks
July 2	3	H	23.5	478	158	"Explorer"
" 13	5	m	14.0	414	122	Launch
" 14	5	n	18.8	496	158	"
" 15	5	o	24.0	602	200	"
" 16	6	p	15.0	433	140	"
" 19	3	K	14.2	306	112	"Explorer"
" 21	6	s	12.2	423	116	Launch
Aug. 16	10	Z	17.8	367	160	"Explorer"
" 17	6	d'	12.0	362	124	Launch
" 19	6&13	e'(e)	21.0	549	200	"
" 19	10	A A.	15.5	301	128	"Explorer"
" 24	10	BB	16.2	383	156	"
" 30	10&11	C C	29.8	580	246	"
	6	13	234.0	5744	2020	

Area in sq. stat. miles = 20.3

Y.E.C.
Aug.2,
1910.

HYDROGRAPHIC SHEET NO. 5178

Nushagak Bay, Eastern Part, Alaska, by Asst.W.C. Dibrell in 1909.

TIDES.

	Clark Point ft.
Mean lower low water, or plane of reference on staff	1.9
Lowest tide observed " "	-0.2
Highest " " " "	24.0
Mean range of tide	15.2

Department of Commerce and Labor

Hyd. Sheet 3178

The area surveyed is very well covered by a system of parallel lines, practically no cross lines being run. The soundings agree fairly well and what discrepancies occur are probably due to the fact that some of the soundings were reduced by the predicted tides, as no gauge readings were taken on some days.

This is probably also the cause of some irregularity in the curves.

The records are clear and neatly kept.

R. L. Johnston
Draftsman
10/21/10.

This work was carelessly protracted R.L.J.

No. 205
Ed. 1-4-10—350,000